

CLAIMS

1. A coating comprising a coating component containing a polymer (I) and colloidal silica (II) having an average particle size of 60 nm or less, wherein colloidal silica (II) is contained with 0.5-20 parts by mass in solid content for 100 parts by mass of polymer (I) and an area of colloidal silica exposed at a coating surface occupies 35% or more of the coating surface.
2. An aqueous coating material comprising a polymer (I) which comprises 0.1-20 parts by mass of a radical polymerizable monomer unit containing hydrolysable silyl group (a) and 80-99.9 parts by mass of another copolymerizable monomer unit (b) (total contents of (a) and (b) are 100 parts by mass), colloidal silica (II) having an average particle size of 60 nm or less, and at least one kind of an anionic surfactant shown in the following (III) and a nonionic surfactant, wherein colloidal silica (II) is contained with 0.5-20 parts by mass in solid content for 100 parts by mass of polymer (I).
(III): Sulfate salts of polyoxyalkylene aryl ether, sulfate salts of polyoxyalkylene alkylaryl ether, formalin condensates of sulfate salts of polyoxyalkylene aryl ether and formalin condensates of sulfate salts of polyoxyalkylene alkylaryl ether.
3. An aqueous coating material comprising polymer (I) which comprises 4-20 parts by mass of a radical polymerizable monomer unit containing hydrolysable silyl group (a) and 80-96 parts by mass of another copolymerizable monomer unit (b) (total contents of (a) and (b) are 100 parts by mass) and colloidal silica (II) having an average particle size of 60nm or less, wherein colloidal silica (II) is contained with 0.5-20 parts by mass in solid content for 100 parts by mass of polymer (I).

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4. An aqueous coating material comprising 0.5-20 parts by mass in solid content of colloidal silica (II) having an average particle size of 60 nm or less and 0.5-20 parts by mass of an organic solvent having less than 0.8 of distribution coefficient of octanol/water.

5. A process for producing a coating of the present invention comprises applying the aqueous coating material according to any one of claims 2 to 4, wherein a coating comprises a coating component containing polymer (I) and colloidal silica (II) having an average particle size of 60 nm or less, in which colloidal silica (II) is contained within 0.5-20 parts by mass in solid content for 100 parts by mass of polymer (I) and the area of colloidal silica exposed at the coating surface occupies 35% or more of the coating surface.

6. A coated article comprises the coating according to claim 1.